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Patent Claims

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1. A supportive spring base for, in particular, a mattress for a place to sleep and/or recline, having a plurality of spring slats running at a parallel distance to one another, and having longitudinal struts which run transversely with respect to the spring slats and belong, in particular, to a frame, the spring slats being mounted with their end regions on the longitudinal struts, characterized by connecting elements (13, 31, 32, 35, 37) for connecting at least two spring slats (10) in each case.

2. The supportive spring base as claimed in claim 1, characterized in that the connecting elements (13, 31, 32, 35, 37) are of at least partially elastic design for transmitting at least part of the movement of a particular spring slat (10) to at least one preferably adjacent spring slat (10).

3. The supportive spring base as claimed in claim 1, characterized in that vertical compressive deflections of the connecting elements (13, 31, 32, 35) and/or spring slats (10) are at least partially transmitted to adjacent spring slats (10) by the connecting elements (13, 31, 32, 35), and preferably one particular connecting element (13, 31, 32, 35) is arranged between two adjacent, parallel spring slats (10).

4. The supporting spring base as claimed in one of the preceding claims, characterized in that the connecting elements (13, 31, 32, 35, 37) are mounted, in particular elastically and/or in an articulated manner, on at least two different spring slats (10).

5. The supportive spring base as claimed in one of

the preceding claims, characterized in that the connecting elements (13, 31, 32, 25) are mounted on the spring slats (10) in such a manner that the connecting elements (13, 31, 32, 35, 37) are movable relative to
5 the spring slats (10) both in a rotational and translational manner.

6. The supportive spring base as claimed in one of the preceding claims, characterized in that the
10 connecting elements (13, 31, 32, 35) have at least one spring element which is preferably designed as a bellows (33, 36), a spring plate and/or an elastic wing (14).

15 7. A supportive spring base for, in particular, a mattress for a place to sleep and/or recline, in particular as claimed in at least one of the preceding claims, characterized in that the connecting elements (13, 31, 32, 35) have spring elements, load-bearing
20 means (15, 34) and/or suspension devices (16, 18) for connecting the connecting elements (13, 31, 32, 35) to the spring slats (10).

8. A supportive spring base for, in particular, a
25 mattress for a place to sleep and/or recline, in particular as claimed in at least one of the preceding claims, characterized in that the connecting elements (13, 31, 32, 35) have suspension devices (16, 18) which can be rotated relative to the spring slats (10),
30 preferably about a longitudinal axis of the particular spring slat (10), and in that the suspension devices (16, 18) are additionally preferably movable in a translational manner which respect to the spring slats (10).

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9. The supportive spring base, in particular as claimed in one of the preceding claims, characterized in that at least one suspension device (16) of the connecting elements (13, 31, 32, 35) is assigned at

least one locking device (24) which fixes the particular connecting element (13, 31, 32, 35) nondisplaceably in the longitudinal direction of at least one spring slat (10), preferably in a frictional and/or non-positive manner, and/or the or each locking device (24) is connected flexibly to the particular connecting element (13, 31, 32, 35), in particular the load-bearing means (15, 34) of the same, preferably in such a manner that the or each locking device (24) does not substantially impair the mobility of the suspension devices (16, 18).

10. The supportive spring base as claimed in one of the preceding claims, characterized in that the spring slats (10), preferably all of the spring slats (10), are connected by a connecting element (37) preferably having a plurality of continuous strands (39), the strands (39) preferably running in a direction deviating from the longitudinal direction of the spring slats, preferably extending transversely with respect to the longitudinal direction of the spring slats (10).

11. The supportive spring base as claimed in one of the preceding claims, characterized in that the strands (39) run parallel to one another at preferably identical distances, the distances between the strands (39) preferably being smaller than the distances between the spring slats (10).

12. The supportive spring base as claimed in one of the preceding claims, characterized in that the strands (39) are of elastic design, and preferably consist entirely or for the most part of plastic.

13. The supportive spring base as claimed in one of the preceding claims, characterized in that the strands (39) are preferably connected to the spring slats (10) at the point at which they extend over the spring slats (10).

14. The supportive spring base as claimed in one of the preceding claims, characterized in that, in the regions between the spring slats (10), the strands (39) can be changed in respect of their elastic properties by means of inserts and/or attachments, in particular can be provided with greater stiffness.

15. The supportive spring base as claimed in one of the preceding claims, characterized in that the strands (39) are connected by transverse strands (40), and the strands (39) and the transverse strands (40) are preferably connected to one another, in particular integrally, at their crossing points to form a net (38).

16. The supportive spring base as claimed in one of the preceding claims, characterized in that the net (38) is connected to the spring slats (10) in the region of transverse strands (40), which extend over the spring slats (10), preferably by means of releasable, if appropriate elastic clamps (41).

17. The supportive spring base as claimed in one of the preceding claims, characterized in that the net (38) can be stiffened by means of inserts and/or attachments between the spring slats (10) in order to change the coupling to the spring slats (10), and/or at least areas of the net (38) are provided with springs, in particular disk springs.

18. The supportive spring base as claimed in one of the preceding claims, characterized in that the connecting elements (13, 31, 32, 35), in particular the net (38), are of such elastic design that the supportive spring base can be rolled up.